



SDMS Doc ID 2014636

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**Story Board for Perchlorate Meeting**  
**Gavilan College**  
**Saturday, May 3, 2003**  
**10 a.m. to 1 p.m.**

District Directors: Sig Sanchez &amp; Rosemary Kamei

**Speaker Groupings:****A: Olin Case Investigation & Cleanup**

Central Coast - Regional Water Quality Control Board - John Mijares

RWQCB Community Advisory Group - Sylvia Hamilton

Santa Clara Valley Water District - Tom Mohr

Staff Escort/Expert: Jim Crowley\*

Assistant: Alex A.

**B: Health, Agriculture and Animal Issues**

Santa Clara County Health Officer - Dr. Martin Fenstersheib

Santa Clara County Agricultural Commissioner - Greg Van Wassenhove

Santa Clara Valley Water District - Bob Siegfried

Staff Escort/Expert: George Cook\*

Assistant: Miguel Silva

**C: Cleanup technologies (state federal, local)**

U.S. EPA - Kevin Mayer, National Perchlorate Coordinator

Santa Clara Valley Water District - Marc Lucca

Staff Escort/Expert: Tracy Hemmeter \*

Assistant: Grace Chen

**Venues:****Gavilan Student Center**

500 capacity

200+ overflow

**Moderator:** Susan Fitts**Tent**

500 capacity

200 plus overflow

Marty Grimes**Social Science Theatre**

250 capacity

none

Meenakshi Ganjoo**Room staff:**

Mala Magill\*

Scott Wilson

Betty Martinez\*

Ray Wong

Lynda Jones \*

Mike Di Marco (later)

\*

**Speaker Rotation:**

10 to 11

**A****B****C**

11 to noon

**B****C****A**

noon to 1

**C****A****B**

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Paul Goeltz \* (w /AV staff)

Press Liaison (if needed):

Mike Di Marco\*

(greeting area w/ table at upper parking lot C from 9:00)

Floater:

Gerry Uenaka\*

Maintenance staff for parking control (2) \*

Information table at Parking Area:

Rita Dennis\*, Imelda Suarez, Kem Gong

\* = in contact with a district radio

Table Displays (on lawn area): San Martin Neighborhood Alliance (food?), SCVWD,

#### Meeting Messages:

- The RWQCB and the SCVWD are committed to an open and collaborative process to find the conclusive solution for the groundwater contamination problem.
- Perchlorate information is to be presented in a public forum for community scrutiny and discussion.
- The RWQCB is the leader and the water district is a partner in the next phase as we plan the next steps toward a clean up.
  - The SCVWD is their partner in South County water quality.
  - The SCVWD acted quickly (accelerated testing, bottled water, package treatment plant, assembling test data, etc.) because we were the agency **BEST** equipped to do so.
  - The water district has taken quick action towards a solution because the public has demanded progress.
- The SCVWD is primarily interested in the restoration of clean water in the groundwater basin. The issue of property value impacts is covered in a letter from the County Assessor which is available at the information booth.

#### Meeting Strategies:

- Respond to south county's request for first-hand information by bringing together a panel of health, agricultural and water quality experts to answer the public's questions first-hand.
- Respond to public's request to get timely updates of the situation.

#### Meeting Tent

(seating for 500, min. three solid walls, A/V system (Paul Goeltz), overflow speakers outside)

- 10" risers to be used to elevate the panel speakers above the floor. Solid podium to be provided on the riser. Riser and speakers to be at one end of tent. Overflow audience can be accommodated on the lawn to the North side. (if needed)

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- Single aisleway to be used through the center and a main aisleway through the width for smooth entrance and exit. No audience mikes! Questions will be taken through written response card only. Moderators will stress the need to keep questions brief, for the general audience and written only)
- This venue will be tape recorded only – no video.

**Student Center room set-up:**

**(seating for 500, A/V system (by Paul Goeltz), overflow speakers outside on E. covered patio)**

- 10" risers to be used to elevate the panel speakers above the floor. Solid podium to be provided on the riser. Riser and panel to be at east end of room. Overflow audience can be accommodated on the covered patio at the east side. (if needed)
- Single aisleway to be used through the center and a main aisleway through the width for smooth entrance and exit. No audience mikes! Questions will be taken through written response card only. Moderators will stress the need to keep questions brief, for the general audience and written only)
- This is the location for the Spanish and Mandarin interpreters. Spanish translators over the wireless headphones to provide translations to the Spanish speaking audience. Wireless headsets will be used to beam the interpreted audio to each listener. 25 Spanish and 12 other language headsets are available.
- Spanish video is being taken in this room for future use if needed.
- English video using the mike feeds will be taken in this room. This may be made available to the neighborhoods groups, public access television, etc.

**Social Science Theatre set-up:**

- Theatre style chairs existing.
- No audience mikes! Questions will be taken through written response card only. Moderators will stress the need to keep questions brief, for the general audience and written only)
- This venue will be tape recorded only – no video.

**Information Booth:**

- Two canopies together at loop drive and close to parking area
- One 10' x 20' "information" booth to be staffed by three people minimum. Meeting agenda w/map are to be given to each attendee. No need to actually capture names and addresses unless they request to be kept informed. Handouts available, small giveaways, district literature, etc.
- (?) Have a sign-up sheet for people interested in keeping contact with the Citizens Advisory Group? We can turn the names and addresses to Sylvia or John after the meeting.
- Have a sign-in sheet for those people interested in having Web based materials sent to them for their reading. Be specific and needs good penmanship!
- Assessor's letter available for pick-up.
- Elected Officials sign-in will be at this table. Direct elected officials or their representatives to the Lounge for coffee or donuts before the event and after the event.

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Time/topic: Friday Afternoon & Evening	Staff members involved/duties:
<p>~2 pm</p> <ul style="list-style-type: none"> <li>- district staff arrives</li> </ul> <p>~4:00 Gerry arrives</p> <p>~5 p.m. Tent arrives for set-up</p> <p>~6:00 p.m. Imelda arrives w/Pizza for staff</p> <p>~8:30 p.m.</p> <p>10 p.m. leave for the night – private patrol to watch set-up.</p>	<p><b>Staff members involved/duties:</b></p> <p>Kem &amp; Alex &amp; Paul Goeltz (w/staff)</p> <ul style="list-style-type: none"> <li>- set-up Student Center and Social Science Theater</li> </ul> <p><b>Set-up:</b></p> <ul style="list-style-type: none"> <li>- Podium w/mic, Comment cards only.</li> <li>- Risers set-up by rental Co.</li> <li>- (4) mikes at table for panel seated up front.</li> </ul> <p><b>Set-up:</b></p> <ul style="list-style-type: none"> <li>- 70 x 100' tent with three sides.</li> <li>- 500 chairs</li> </ul> <p>Paul and staff to set-up Tent A/V</p> <ul style="list-style-type: none"> <li>- Podium w/mic, Comment cards only.</li> <li>- Risers set-up by rental Co.</li> <li>- (4) mikes at table for panel seated up front.</li> </ul>
Time/topic: Saturday morning	Staff members involved/duties:
<p>~7:00 a.m.</p> <p>~7:45 a.m. Lunch Stop arrives with staff coffee and donuts and audience water.</p>	<ul style="list-style-type: none"> <li>- staff arrives</li> <li>- Set-up video camera on tripod and set-up wireless mic and headphone system for Spanish translators. Record Spanish video tape.</li> <li>- set-up easels w/displays (2 each venue)</li> <li>- meeting handouts available at each venue.</li> </ul>
<p>9:00 a.m.</p> <ul style="list-style-type: none"> <li>- Panel participants meet in our "green room" also known as the student lounge in the Student Center.</li> </ul>	<ul style="list-style-type: none"> <li>- Last minute updates.</li> <li>- Schedules handed out</li> <li>- Moderators duties reviewed with all</li> <li>- Quick radio training</li> </ul>
<p>10 am</p> <p>Room and participants ready:</p>	<ul style="list-style-type: none"> <li>- panel speakers to be shuttled by their moderators.</li> <li>- Displays will follow the speakers, easels</li> </ul>

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	stay behind. Assistants to carry displays and position onto the easels in each room.
<p>10:00 a.m. to 10:35 a.m.</p> <ul style="list-style-type: none"><li>- <b>Moderator</b> to open meeting at each venue</li><li>- Panelists give up to 10 minutes presentation from podium. Moderator to keep time.</li></ul> <p>10:35 to 10:50</p> <ul style="list-style-type: none"><li>- Q &amp; A from audience cards. (to be screened by head staff at each room with moderator)</li></ul> <p>10:51 (Gerry to announce over radio to read last question)</p> <p>10:55 (Gerry to announce speaker rotation begins immediately)</p>	<ul style="list-style-type: none"><li>- Moderator at podium w/panelists seated</li><li>- <b>Staff escorts, Assistants and Room Staff</b> will assist with the passing out of comment cards for those who would like to jot down a question. Make sure that people know that only a few questions will be answered during this meeting. (New questions of a general nature will be answered on our online FAQ section)</li><li>- Panelists can answer questions from the table.</li><li>- The staff escort (with input from the room moderator) will sort through the question cards to select and prioritize the questions that will be answered by this panel.</li><li>- Room moderator will be the "policeman" to warn the speakers when the last question will be answered and when it is time to leave the room and rotate. Announcements will come over the radio by Gerry.</li></ul>

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<p>11:00 a.m. to 11:35 a.m.</p> <ul style="list-style-type: none"><li>- Moderators to introduce elected officials present at the meeting today.</li><li>- Begin speaker panels</li></ul> <p>11:35 to 11:50 a.m.</p> <ul style="list-style-type: none"><li>- Q &amp; A from audience cards. (to be screened by head staff at each room with moderator)</li></ul> <p>11:51 (Gerry to announce over radio to read last question)</p> <p>11:55 (Gerry to announce speaker rotation begins immediately)</p> <ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- Moderator at podium w/panelists seated</li><li>- Staff escorts, Assistants and Room Staff will assist with the passing out of comment cards for those who would like to jot down a question. Make sure that people know that only a few questions will be answered during this meeting. (New questions of a general nature will be answered on our online FAQ section)</li><li>- Panelists can answer questions from the table.</li><li>- The staff escort (with input from the room moderator) will sort through the question cards to select and prioritize the questions that will be answered by this panel.</li><li>- Room moderator will be the "policeman" to warn the speakers when the last question will be answered and when it is time to leave the room and rotate. Announcements will come over the radio by Gerry.</li></ul>
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<p>12:00 noon to 12:35 p.m.</p> <ul style="list-style-type: none"><li>- <b>Moderator</b> to open meeting at each venue</li><li>- Panelists give up to 10 minutes presentation from podium. Moderator to keep time.</li></ul> <p>12:35 to 12:50 p.m.</p> <ul style="list-style-type: none"><li>- Q &amp; A from audience cards. (to be screened by head staff at each room with moderator)</li></ul> <p>12:51 (Gerry to announce over radio to read last question)</p> <p>12:55 (Gerry to announce speaker rotation begins immediately) Speakers to retire to the Student Center Room for R&amp;R.</p> <ul style="list-style-type: none"><li>- Room staff to thank attendees.</li><li>- Remember to ask people to keep checking the district Web site for further updates such as new detection maps, updated FAQs and announcements.</li><li>- Suggest the public read the local papers, join the SMNA or visit our website to keep up with the new information.</li></ul>	<ul style="list-style-type: none"><li>- Moderator at podium w/panelists seated</li><li>- <b>Staff escorts, Assistants and Room Staff</b> will assist with the passing out of comment cards for those who would like to jot down a question. Make sure that people know that only a few questions will be answered during this meeting. (New questions of a general nature will be answered on our online FAQ section)</li><li>- Panelists can answer questions from the table.</li><li>- The staff escort (with input from the room moderator) will sort through the question cards to select and prioritize the questions that will be answered by this panel.</li><li>- Room moderator will be the "policeman" to warn the speakers when the last question will be answered and when it is time to leave the room and rotate. Announcements will come over the radio by Gerry.</li></ul>



# **Point-of-Use Treatment of Groundwater for Domestic Use Only**

## ● **Features**

- Source of water – well water (groundwater) in Llagas Sub-basin
- Provides a fast solution regarding human consumption

## ● **Advantages**

- Fulfills domestic water requirements in affected area of San Martin; expandable to Morgan Hill and Gilroy.
- Solution allows continued long-term use of groundwater
- Other contaminants can be removed e.g., nitrate
- Retains owner control of wells
- Removes contaminated groundwater and helps clean groundwater basin
- Equipment is commercially available from several sources as a direct purchase or contract basis.

## ● **Disadvantages**

- Does not satisfy agriculture/livestock demand
- Department of Health Services (DHS) approval of POU devices not yet available. Certification not required if homeowner installs the system.
- Homeowner may be required to perform routine maintenance.

● Time to Implementation: 1 to 2 years after project selection & initiation

● Capital Cost = \$2M Operations & Maintenance \$0.5M annually

● Lease = \$0.8 M annually

**South County Perchlorate Contaminated  
Groundwater Alternatives**

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# **Point-of-Use Treatment for Domestic Water And Well Head Treatment for Agriculture**

- **Features (same as w/ Point-of-Use Treatment of Groundwater plus)**
  - Source of water for agriculture – well water (groundwater) in Llagas Sub-basin
- **Advantages**
  - Fulfills water requirements of the affected area of San Martin; expandable to Morgan Hill and Gilroy
  - Solution allows continued long-term use of the groundwater
  - Retains well owner control of wells
  - Removes contaminated groundwater and helps clean groundwater basin
- **Disadvantages**
  - Increased energy and maintenance costs for the users of the system
  - Complicated equipment for the average homeowner or contractor to operate and maintain
  - Recycled water portion requires a long time for implementation.
- **Time to Implementation: 1 to 2 years after project selection & initiation**
- **Capital Cost = \$13M to \$15M Operations & Maintenance \$1M annually**
- **Lease = \$1.7M**

**South County Perchlorate Contaminated  
Groundwater Alternatives**

# **Point-of-Use Treatment for Domestic Use & Recycled Water for Agriculture**

- **Features (same as w/ Point-of-Use Treatment of Groundwater plus)**

- Source of water for agriculture – tertiary recycled water
- Existing South County Recycled Water Authority (SCRWA) recycled water plant including booster pump station, and storage tank(s)

- **Advantages**

- Fulfills water requirements of the affected area of San Martin; expandable to Morgan Hill and Gilroy
- Solution allows continued long-term use of the groundwater water basin
- Comprehensive solution for agriculture
- Removes contaminated groundwater and helps clean groundwater basin
- Expands the use of recycled water in the project area

- **Disadvantages**

- May raise issues pertaining to impact of recycled water on the groundwater basin
- Recycled water portion of the option has high capital costs and Operations & Maintenance costs
- Recycled water portion requires a long time for implementation.

- **Time to Implementation: 3 to 5 years after project selection & initiation**

- **Capital Cost = \$135M Operations & Maintenance \$1M annually**

## **South County Perchlorate Contaminated Groundwater Alternatives**

# **Well Head Treatment of Groundwater for Domestic Use and Agriculture**

## ● **Features**

- Source water: contaminated well water (groundwater) in Llagas Sub-basin

## ● **Advantages**

- Fulfills domestic and agriculture water requirements of the affected area of San Martin; expandable to Morgan Hill and Gilroy
- Solution permits continued long-term use of groundwater
- Retains well owner control of wells
- Removes contaminated groundwater and helps clean groundwater

## ● **Disadvantages**

- Increased energy and maintenance costs for the users of the system
- Complicated equipment for the average homeowner or contractor to operate and maintain

## ● **Time to Implementation: 1 to 2 years after project selection & initiation**

## ● **Capital Cost = \$30M      Operations & Maintenance \$11M annually**

## ● **Cost to Lease Equipment = \$17M**

**South County Perchlorate Contaminated  
Groundwater Alternatives**

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# **Treat & Distribute Surface Water for Domestic and Agriculture**

## ● **Features**

- Source water: Anderson Reservoir and Central Valley Project imported water from San Luis Reservoir
- Includes 7 million gallon per day treatment plant, storage tank(s) & distribution system
- Involves some change in management of Anderson Reservoir

## ● **Advantages**

- Fulfills domestic and agriculture water requirements of the affected area of San Martin; expandable to Morgan Hill and Gilroy.

## ● **Disadvantages**

- Will preclude individual use of wells
- Prevents use of the groundwater basin in the area, which is significant source of water for drought or consecutive dry years.
- Central Valley Project imported water is subject to availability of allocations, e.g., drought/ dry years and "San Luis low point" limitations
- Involves source management; inconsistent with District's long-term water supply management plans
- May be seen as growth-inducing
- Longer time required for planning, design, permitting and construction
- Major policy issues including: Who will be the retailer? Who pays?
- Excess capacity at the San Luis Reservoir - Pacheco Pump Station is limited.

● **Time to Implementation:** 4 to 5 years after project selection & initiation

● **Capital Cost = \$150M Operations & Maintenance \$2M annually**

**South County Perchlorate  
Contaminated Groundwater Alternatives**

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## **Treat & Distribute Groundwater for Domestic Use and Agriculture**

### ● **Features**

- Source of water: well water (groundwater) in the Llagas Sub-basin
- Includes treatment plant, storage tank(s) & distribution system
- Involves no change in management of groundwater basin

### ● **Advantages**

- Fulfills water requirements of the affected area of San Martin; expandable to Morgan Hill and Gilroy.
- Solution permits continued long-term use of groundwater
- More easily expanded to treat other contaminants, e.g., nitrate
- Removes contaminated groundwater & helps clean groundwater basin

### ● **Disadvantages**

- Will preclude individual use of wells
- May be seen as growth-inducing
- Longer time required for planning, design, permitting and construction
- Significant policy issues including: Who will be the retailer? Who pays?

### ● **Time to Implementation: 4 to 5 years after project selection & initiation**

### ● **Capital Cost = \$135M Operations & Maintenance \$2M annually**

## **South County Perchlorate Contaminated Groundwater Alternatives**

# **Next Steps**

- **Continue/Initiate discussions to further develop and refine solutions and costs, and to resolve how projects will be implemented.**
- **The initial round of discussions will include:**
  - **Regional Water Quality Control Board**
  - **Olin Corporation**
  - **City of Gilroy**
  - **City of Morgan Hill**
  - **Regulatory Agencies**
  - **Community Action Group**
  - **Others will be added as warranted**

**South County Perchlorate  
Contaminated Groundwater Alternatives**

# South County Perchlorate Contaminated Groundwater Alternatives

Alternative	Treat and Distribute Surface Water For Domestic & Agriculture	Treat and Distribute Groundwater For Domestic & Agriculture	Point of Use Treatment for Domestic Supply Only	Point of Use Treatment for Domestic Supply Plus Recycled Water for Agricultural Supply	Point of Use Treatment for Domestic Supply Plus Wellhead Treatment for Agricultural Supply	Wellhead Treatment For Domestic & Agriculture
Timeframe for Implementation (Years)*	4 - 5	4 - 5	1 - 2	3 - 5	1 - 2	1 - 2
Capital Cost (Millions)	\$150	\$135	\$2	\$135	\$13 to \$15	\$30
Annual Operation and Maintenance Costs (Millions)	\$2	\$2	\$0.5	\$1	\$1	\$11
Annual Lease Cost (Millions)	Not Applicable	Not Applicable	\$0.8	Not Applicable	\$1.7	\$17.4
Source of Water	Surface Water	Groundwater	Groundwater	Groundwater, Recycled Water	Groundwater	Groundwater
Centralized Treatment Plant	Yes	Yes	No	No – Domestic Yes-Agriculture	No	No
Distribution System	Yes	Yes	No	Yes	No	No
Consistency with District/County Plans	No	Yes	Yes	To be determined	Yes	Yes
Expandable	Yes	Yes	Yes	Yes	Yes	Yes
Beneficial Uses Satisfied	Yes	Yes	No; Agriculture not satisfied	Yes	Yes	Yes
Contributes to Groundwater Cleanup	No	Yes	Yes	Yes	Yes	Yes

\* Time frame begins after project selection and initiation.